United States Environmental Protection Agency
Region 9 Laboratory
1337 S. 46th Street Building 201
Richmond, CA 94804

Subject: **Analytical Testing Results - Project R09SA6**
SDG: 09254B

From: **Brenda Bettencourt, Director**
EPA Region 9 Laboratory
MTS-2

To: **Lynda Deschambault**
California Site Cleanup Section 1
SFD-7-1

Attached are the results from the analysis of samples from the **Omega Chemical OU2 September 2009 Sampling** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

Electronic CC: Tom Perina, CH2M-Hill
Daniel Jablonski, CH2M-Hill

Analyses included in this report:

Percent Solids

Extractable Petroleum Hydrocarbons by GC/FID

Extractable Petroleum Hydrocarbons by GC/FID

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Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Lynda Deschambault	**California Site Cleanup Section 1**	**SDG:** 09254B	
Project Number: R09SA6	**75 Hawthorne Street**	**Reported:** 10/19/09 10:14	
Project: Omega Chemical OU2 September 2009 Sampling	**San Francisco CA, 94105**		

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
Y5126	0909023-01	Water	09/10/09 15:10	09/11/09 10:00
Y5127	0909023-02	Soil	09/10/09 15:20	09/11/09 10:00
Y5128	0909023-03	Soil	09/10/09 15:30	09/11/09 10:00

TPH-DRO: Surrogate recoveries for samples 0909023-02, and 04, were below QC limits. Additionally, spike recoveries for samples B9I0125-MS1/MSD1 (associated with 0909023-02) were low. These samples were re-extracted out of 14 days holding time (batch B9I0171) and re-analyzed with similar results. Results for samples were reported from original extract. The issue may be due to a recent change in the spiking procedure. Low LCS recoveries have been noted recently for extractables. Recent investigation has confirmed that low recoveries are likely due to a recent procedural change related to spike introduction.

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Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 0909023-01									**Water - Sampled: 09/10/09 15:10**
Sample ID: Y5126									**Extractable Petroleum Hydrocarbons by EPA Method 8015B**
TPH as Diesel		250	F1	250	ug/L	B9I0100	09/15/09	09/23/09	8015B/SOP385
TPH as Motor Oil		ND	U	1,000	"	"	"	"	8015B/SOP385
Surrogate: Hexacosane			123 %	*70-130%*		"	"	"	
Lab ID: 0909023-02									**Soil - Sampled: 09/10/09 15:20**
Sample ID: Y5127									**Extractable Petroleum Hydrocarbons by EPA Method 8015B**
TPH as Diesel		ND	J, Q4, Q7, U	6	mg/kg dry	B9I0125	09/18/09	09/24/09	8015B/SOP385
TPH as Motor Oil		ND	J, Q7, U	24	"	"	"	"	8015B/SOP385
Surrogate: Hexacosane			**56 %**	*70-130%*		"	"	"	
Sample ID: Y5127									**Conventional Chemistry Parameters by APHA/EPA Methods**
% Solids		83		1	%	B9J0010	10/01/09	10/02/09	3550C/SOP460
Lab ID: 0909023-03									**Soil - Sampled: 09/10/09 15:30**
Sample ID: Y5128									**Extractable Petroleum Hydrocarbons by EPA Method 8015B**
TPH as Diesel		ND	J, Q7, U	6.7	mg/kg dry	B9I0125	09/18/09	09/24/09	8015B/SOP385
TPH as Motor Oil		ND	J, Q4, U	27	"	"	"	"	8015B/SOP385
Surrogate: Hexacosane			**7 %**	*70-130%*		"	"	"	
Sample ID: Y5128									**Conventional Chemistry Parameters by APHA/EPA Methods**
% Solids		75		1	%	B9J0010	10/01/09	10/02/09	3550C/SOP460

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Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B9I0100 - 3520B CLLE - TPH - Extractable									**Prepared: 09/15/09 Analyzed: 09/23/09**	
									Extractable Petroleum Hydrocarbons by EPA Method 8015B - Quality Control	
Blank (B9I0100-BLK1)										
TPH as Diesel	ND	U	250	ug/L						
TPH as Motor Oil	ND	U	1,000	"						
Surrogate: Hexacosane	*168*			"	*150*		112	*70-130*		
LCS (B9I0100-BS1)										
TPH as Diesel	1,280		250	ug/L	1500		86	70-130		
Surrogate: Hexacosane	*189*			"	*150*		126	*70-130*		
Matrix Spike (B9I0100-MS1)		**Source: 0909023-01**								
TPH as Diesel	2,480		480	ug/L	2910	251	77	70-130		
Surrogate: Hexacosane	*334*			"	*291*		115	*70-130*		
Matrix Spike Dup (B9I0100-MSD1)		**Source: 0909023-01**								
TPH as Diesel	2,650		480	ug/L	2870	251	84	70-130	7	25
Surrogate: Hexacosane	*352*			"	*287*		122	*70-130*		
Batch B9I0125 - 3545 ASE/PFE - TPH - Extractable									**Prepared: 09/18/09 Analyzed: 09/23/09**	
									Extractable Petroleum Hydrocarbons by EPA Method 8015B - Quality Control	
Blank (B9I0125-BLK1)										
TPH as Diesel	ND	U	5	mg/kg wet						
TPH as Motor Oil	ND	U	20	"						
Surrogate: Hexacosane	*4.78*			"	*5.00*		96	*70-130*		
LCS (B9I0125-BS1)										
TPH as Diesel	35.9		5	mg/kg wet	50.0		72	70-130		
Surrogate: Hexacosane	*4.62*			"	*5.00*		92	*70-130*		
Matrix Spike (B9I0125-MS1)		**Source: 0909023-02**								
TPH as Diesel	28.7		6	mg/kg dry	60.9	ND	**47**	70-130		
Surrogate: Hexacosane	*4.48*			"	*6.09*		73	*70-130*		
Matrix Spike Dup (B9I0125-MSD1)		**Source: 0909023-02**								
TPH as Diesel	34		6	mg/kg dry	61.2	ND	**56**	70-130	17	25
Surrogate: Hexacosane	*4.51*			"	*6.12*		74	*70-130*		
Batch B9J0010 - Solids, Dry Weight (Prep) - Solids, Dry Weight									**Prepared: 10/01/09 Analyzed: 10/02/09**	
									Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control	

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Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B9J0010 - Solids, Dry Weight (Prep) - Solids, Dry Weight									**Prepared: 10/01/09 Analyzed: 10/02/09**	
Blank (B9J0010-BLK1)									**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control**	
% Solids	ND	U	1	%						
Duplicate (B9J0010-DUP1)		**Source: 0909023-02**								
% Solids	83		1	%		83			0	20

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Qualifiers and Comments

Q7 Surrogate spike recoveries for this sample were outside control limits.

Q4 The matrix spike and/or matrix spike duplicate associated with this sample did not meet recovery criteria for this analyte (see MS/MSD results for this batch in QC summary)

J The reported result for this analyte should be considered an estimated value.

F1 The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

U Not Detected

NR Not Reported

RE1, RE2, etc: Result is from a sample re-analysis.